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(71) Applicant (for all designated States except US): NA-  
TIONAL RESEARCH COUNCIL OF CANADA  
[CA/CA]; 1200 Montreal Road, Bldg. M-5S, Room  
EG-12, Ottawa, Ontario K1A 0R6 (CA).

(72) Inventors; and

(75) Inventors/Applicants (for US only): LI, Yuning  
[CN/CA]; #701-240 Brittany Drive, Ottawa, Ontario  
K1K 0R7 (CA). DING, Jianfu [CA/CA]; Apt. 10,699

La Verendrye Drive, Gloucester, Ontario K1J 7X5 (CA).  
DAY, Michael [CA/CA]; 994 Buckskin Way, Orleans,  
Ontario K1C 2Y6 (CA). TAO, Ye [CA/CA]; 1671 Place  
des Ravins, Ottawa, Ontario K1Ck 6H5 (CA). D'TORIO,  
Marie [CA/CA]; 1954 Mulberry Crescent, Gloucester,  
Ontario K1J 8J9 (CA).

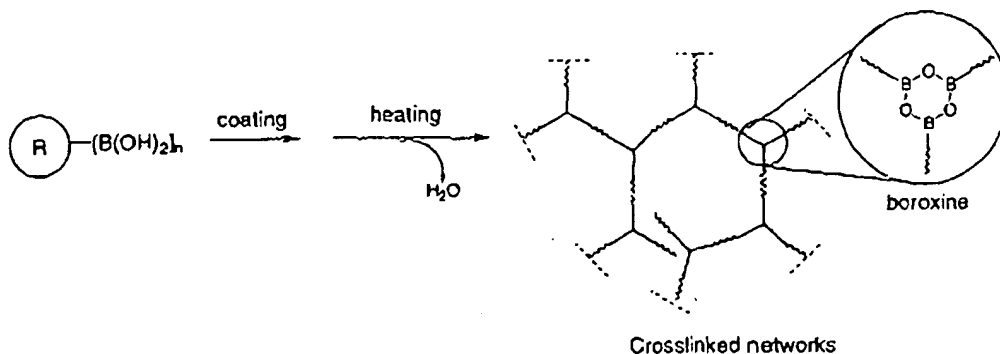
(74) Agent: ANDERSON, Wayne, J.; National Research  
Council of Canada, Intellectual Property Services, EG-12,  
Bldg. M-58, 1200 Montreal Road, Ottawa, Ontario K1A  
0R6 (CA).

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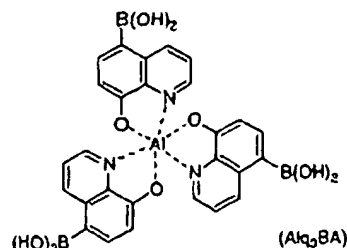
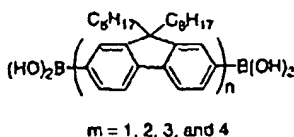
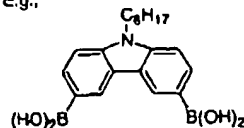
(54) Title: THERMALLY CROSSLINKABLE MATERIALS AND MULTI-LAYERED DEVICES THEREFROM



$n = \text{or} > 1$ ;

R = organic or organometallic complex moiety including oligomer and polymer.

E.g.,



(57) Abstract: The invention disclosed relates to cross-linkable composites of boronic acid or a boronic acid derivative such as a boronate, and an organic or organo-metallic moiety having a functionality such as hole transporting, electron transporting and light emitting, to cross-linked composites and to methods for making same. Multi-layer materials and optoelectronic devices including such cross-linked composites are also disclosed.

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